



Our workforce is highly skilled at discovery.
Even when they're not at work.



With over a billion dollars invested in university research and facilities, worker training, incentives and infrastructure, there's no wonder that biotech companies Thrive in North Carolina.®

T H R I V E
in **NORTH
CAROLINA™**

ThriveNC.com/Bio

Workforce Training

Research

N.C. Biotechnology Center

Third-Largest Cluster

T H R I V E
in **NORTH
CAROLINA™**

Biotechnology, Pharmaceuticals and Life Sciences

North Carolina has the tangibles that businesses need as well as a lifestyle that helps employees flourish. Our secret is simple: When people Thrive, business Thrives. We understand that in today's global economy, people are your greatest source of competitive advantage—happy, fulfilled employees are more productive employees. From our business resources to our human resources to our natural resources, we offer businesses what they need to create a competitive advantage and Thrive.

**BEST
BUSINESS
CLIMATE**

Consistently ranked among the best business climates in the nation by *Forbes*, *CNBC*, *Chief Executive* and *Site Selecton*.



North Carolina's Distinct Advantages

North Carolina has the universities, research and workforce that continue to attract and keep the leading biotechnology, pharmaceutical and life sciences companies here. As the third-largest cluster of these industries in the nation, North Carolina is where biotechnology, pharmaceutical and life sciences companies thrive. Our investments in a **landmark workforce development initiative** and the **world's first state-supported biotechnology center** along with a low cost of doing business help companies here to flourish.

\$1.2B

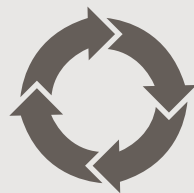
In just 10 years, the state has invested over a billion dollars in university research and facilities, worker training, incentives and infrastructure.

Lowest Cost

North Carolina's cost of doing business is lower than all other biotech states, according to the Milken Institute's Cost of Doing Business Index.

+29%

With strong percentage of growth, North Carolina's biotech industry hit three times the rate of the national bioscience industry growth from 2001–2006.



North Carolina is one of the few states where entrepreneurs can take an idea conceived in the lab, create a product and refine it, produce and test it through the clinical trial phases and then manufacture and distribute it to global markets, all from one place.

>500/ >58,000

More than 500 bioscience companies are headquartered or have operations in North Carolina, employing more than 58,000 people. That's a deep talent pool.

Top 5

North Carolina consistently ranks in the top five states for bioscience development.

A Quality of Life That Attracts Talent

From our moderate climate with excellent recreational opportunities to our culture-rich history and a low cost of living, North Carolina has what people are looking for to Thrive.

- A moderate climate
- A culture rich in history and the arts
- World-class sports events
- Recreational opportunities
- Quality health care
- Low cost of living—housing, utilities, supplies and groceries, transportation and health care are all below the national average
- Low construction costs
- Diverse educational opportunities and jobs available

North Carolina offers an exceptional quality of life that contributes to a highly desirable place for businesses to attract and keep skilled workers.

The low cost of living in North Carolina makes it easier for our residents to take part in and enjoy all the great things that this state has to offer.

Strong Pipeline for Labor

In today's global economy, people are the most important asset to any company and North Carolina gives them what they need to flourish.

Our many skilled workers, as well as the highly specialized pools of talent already here, give your company a competitive advantage. They are dependable, hardworking and more than that, they are happy. That's because they have the types of careers and opportunities available to them that help them succeed. Making them more productive. In fact, North Carolina workers are 10% more productive than the average U.S. worker.



And productive, happy workers create better businesses. They, along with a vast infrastructure and a collaborative, business-friendly environment, ensure that businesses here have what they need to make things happen. Universities, community colleges and other training programs coupled with a growing population provide a workforce with the skills that are in demand globally.

Unique Bio-Workforce Training Programs

Training workers to meet the specific needs of a given industry is a North Carolina specialty. For the biotech and life sciences industry, North Carolina has created a unique educational consortium known as NC BIOIMPACT. Built from the ground up in collaboration with the business leaders who demand a well-trained workforce, NC BIOIMPACT combines resources from educational institutions, industry and non-profit organizations to provide a flow of educated workers at all levels. The effort provides not only for entry-level employees, but also strengthens training programs for incumbent workers at companies across the state. Following an initial investment of \$70 million from the non-profit Golden LEAF Foundation, the state continues to show unprecedented commitment to help the life sciences industry Thrive in North Carolina.®

- Every year, North Carolina institutions graduate over 5,500 students in engineering-, biology- and chemistry-related fields
- North Carolina's 58-campus Community College System offers many biotechnology-related curricula



A unique industry/education partnership draws on the strengths of the state's universities and community colleges to meet growing industry demands.

BioNetwork

A statewide initiative from the renowned North Carolina Community College System, BioNetwork provides hands-on education and training at more than 20 campuses and six centers focused on specific aspects of biotechnology.

Biomanufacturing Training and Education Center (BTEC)

As the world's largest facility dedicated to hands-on training for biotechnology, the 82,500-square-foot BTEC compound at N.C. State University provides students with a capstone experience using large-scale equipment, including bioreactors, downstream separation and purification processes, bioreactor control systems and aseptic processing operations with emphasis on GMP and industry standards.

Biomanufacturing Research Institute and Technology Enterprise

Offers students training in process analytical technology and development, quality assurance and quality control at its state-of-the-art 52,000-square-foot facility located at North Carolina Central University.

We have the research, training and infrastructure needed for growth.

The North Carolina Biotechnology Center (www.NCBiotech.org)—was established in 1984 as the world's first government-sponsored initiative for economic development through biotechnology. With offices in Research Triangle Park, Wilmington, Greenville, Winston-Salem, Greater Charlotte and Asheville, it has applied more than \$200 million in state funding to build a foundation for more biotechnology growth, facilitate statewide partnerships and create a biotechnology community.

North Carolina Research Parks Network—from the state that defined the concept of the research park over 50 years ago, North Carolina is now focusing on the business imperative for collaboration in the 21st century with the creation of the North Carolina Research Parks Network. Stemming from the growth and success of the Research Triangle Park, an established network of research parks has emerged across North Carolina, offering a variety of solutions and resources for the life sciences industry.

Research Triangle Park—the largest research park in the U.S.—anchored by three major research universities (Duke University, N.C. State University and The University of North Carolina at Chapel Hill)—home to more than 100 research and development organizations, employing nearly 40,000 people.

Centennial Campus—a 1,334-acre site adjacent to N.C. State University's main campus—home to well over 100 large and small companies, government agencies and university units.

Piedmont Triad Research Park—a highly interactive, master-planned innovation community developed to support life science and information technology research and development located in downtown Winston-Salem—home to 34 business and university units that employ nearly 850 people—an expansion, led by Wake Forest University Health Sciences, is currently under way.

Carolina North—a planned research and mixed-use academic campus to be located on about 250 acres two miles north of the main campus of UNC-Chapel Hill, enabling public-private partnerships, public engagement and flexible new spaces for research and education.

Charlotte Research Institute—the portal for business-university partnerships at UNC-Charlotte. Regionally, CRI accelerates technology commercialization and the growth of entrepreneurial ventures. Globally, CRI develops intellectual capital through collaborations with industry, government and academia.

Gateway University Research Park—a joint research campus developed in collaboration with North Carolina A&T State University and The University of North Carolina at Greensboro. The research park will promote the research findings and knowledge-based products being developed at the universities and attract and retain educational, corporate and community service agencies that advance scientific and educational research.

The North Carolina Research Campus—a public-private partnership between the University of North Carolina System, Duke University and visionary David Murdock. NCRC is located on 350 acres in Kannapolis. The purpose of the campus is to push the industry/academic research model to the next level.

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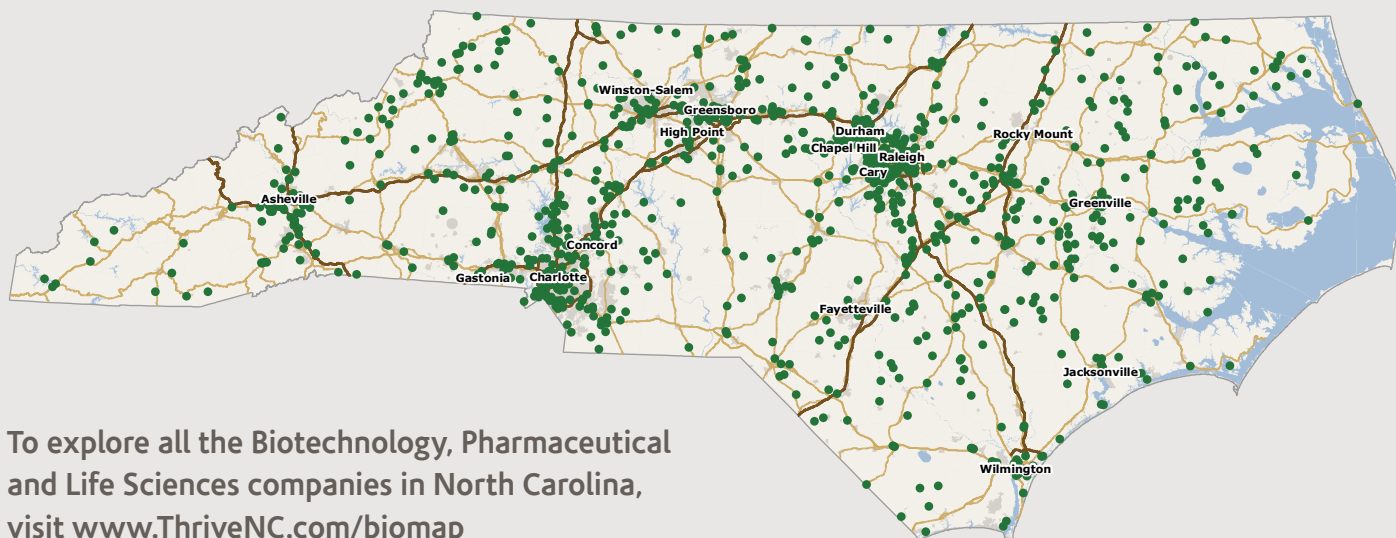
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Biotechnology, Pharmaceutical and Life Sciences Companies Thrive Statewide



To explore all the Biotechnology, Pharmaceutical and Life Sciences companies in North Carolina, visit www.ThriveNC.com/biomap

A Sampling of Companies that Thrive in North Carolina®:

- **Andersen Scientific**, Haw River
- **Archer Daniels Midland**, Southport
- **Baxter**, Marion
- **Bayer Crop Science**, Research Triangle Park
- **Becton Dickinson**, Durham, Four Oaks, Mebane, Research Triangle Park, Wilson
- **Biogen IDEC**, Research Triangle Park
- **DSM Pharmaceuticals**, Greenville
- **Fujifilm Diosynth Biotechnologies**, Morrisville, Research Triangle Park and Cary
- **GlaxoSmithKline**, Research Triangle Park
- **Harmony Labs**, Landis
- **LabCorp**, Burlington, Greensboro, Kinston and Research Triangle Park
- **Medicago USA Inc.**, Research Triangle Park
- **Merck & Co**, Durham
- **Merz Pharmaceuticals**, Greensboro
- **National Institute of Environmental Health Sciences**, Research Triangle Park
- **Novartis**, Wilson, Holly Springs and Greensboro
- **Novo Nordisk**, Clayton
- **Novozymes North America Inc.**, Franklinton
- **Pfizer Animal Health Division**, Research Triangle Park and Sanford
- **PharmaCore**, High Point
- **PPD**, Wilmington, Morrisville and Durham
- **Quintiles**, Durham
- **Talecris Biotherapeutics**, Research Triangle Park and Clayton